

Form PTO-1449 (modified)

List of Patents and Publications for Applicant's

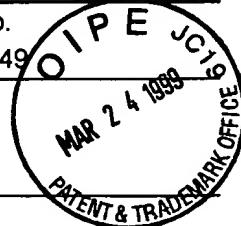
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.
ARCD:278/WIMSerial No.
09/207,649

Applicant

Susan Lindquist

Filing Date:
December 8, 1998Group:
1646

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
✓	B1	WO 96/39834	12/19/96	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
✓	C1	Baker <i>et al.</i> , "Induction of β(A4)-amyloid in primates by injection of alzheimer's disease brain homogenate", <i>Mol. Neurobiol.</i> , 8(1):25-39, 1994.
✓	C2	Bendheim <i>et al.</i> , "Antibodies to a scrapie prion protein", <i>Nature</i> , 310(5976):418-421, 1984.
✓	C3	Bertoni <i>et al.</i> , "Familial creutzfeldt-jakob disease with the PRNP codon 200 ^{lys} mutation and supranuclear palsy but without myoclonus or periodic EEG complexes", <i>Neurology, Abstract</i> , 42(4, Suppl. 3):350, 1992.
✓	C4	Bessen <i>et al.</i> , "Non-genetic propagation of strain-specific properties of scrapie prion protein", <i>Nature</i> , 375:698-700, 1995.
✓	C5	Bessen <i>et al.</i> , "In situ formation of protease-resistant prion protein in transmissible spongiform encephalopathy-infected brain slices", <i>J. Biol. Chem.</i> , 272(24):15227-15233, 1997.
✓	C6	Bockman <i>et al.</i> , "Creutzfeld-Jakob disease prion proteins in human brains", <i>N. Engl. J. Med.</i> , 312(2):73-78, 1985.
✓	C7	Bolton <i>et al.</i> , "Isolation and structural studies of the intact scrapie agent protein", <i>Arch. Biochem. Biophys.</i> , 258:579-590, 1987.
✓	C8	Bolton <i>et al.</i> , "Molecular characteristics of the major scrapie prion protein", <i>Biochemistry</i> 23:5898-5905, 1984.

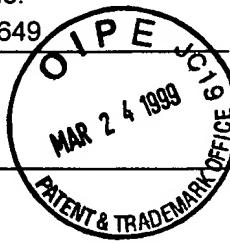
Examiner: *Shawn Dene*

Date Considered:

7-23-99

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Exam. Init.	Ref. Des.	Citation
✓	C9	Bolton <i>et al.</i> , "Identification of a protein that purifies with the scrapie prion", <i>Science</i> , 218:1309-1311, 1982.
✓	C10	Borchelt <i>et al.</i> , "Evidence for synthesis of scrapie prion proteins in the endocytic pathway", <i>J. Biol. Chem.</i> , 267(23):16188-16199, 1992.
✓	C11	Bossers <i>et al.</i> , "Scrapie susceptibility-linked polymorphisms modulate the <i>in vitro</i> conversion of sheep prion protein to protease-resistant forms", <i>Proc. Natl. Acad. Sci. USA</i> , 94:4931-4936, 1997.
✓	C12	Burston <i>et al.</i> , "Release of both native and non-native proteins from a <i>cis</i> -only GroEL ternary complex", <i>Nature</i> , 383:96-99, 1996.
✓	C13	Buchner, "Supervising the fold: functional principles of molecular chaperones", <i>FASEB J.</i> , 10:10-19, 1996.
✓	C14	Carlson <i>et al.</i> , "Genetics and polymorphism of the mouse prion gene complex: Control of scrapie incubation time", <i>Mol. Cell. Biol.</i> , 8(12):5528-5540, 1988.
✓	C15	Caughey <i>et al.</i> , "Binding of the protease-sensitive form of prion protein PrP to sulfated glycosaminoglycan and congo red", <i>J. Virol.</i> , 68(4):2135-2141, 1994.
✓	C16	Caughey and Chesebro, "Prion protein and the transmissible spongiform encephalopathies", <i>Trends Cell Biol.</i> , 7:56-62, 1997.
✓	C17	Caughey <i>et al.</i> , "Secondary structure analysis of the scrapie-associated protein PrP 27-30 in water by infrared spectroscopy", <i>Biochemistry</i> , 30:7672-7680, 1991.
✓	C18	Caughey <i>et al.</i> , "N-terminal truncation of the scrapie-associated form of PrP by lysosomal protease(s): Implications regarding the site of conversion of PrP to the protease-resistant state", <i>J. Virol.</i> , 65(12):6597-6603, 1991.
✓	C19	Caughey and Raymond, "The scrapie-associated form of PrP is made from a cell surface precursor that is both protease- and phospholipase-sensitive", <i>J. Biol. Chem.</i> , 266(27):18217-18233, 1991.
✓	C20	Chernoff <i>et al.</i> , "Role of the chaperone protein Hsp104 in propagation of the yeast prion-like factor [psi ⁺]", <i>Science</i> , 268:880-884, 1995.
✓	C21	Cyr <i>et al.</i> , "Regulation of Hsp70 function by a eukaryotic DnaJ homolog", <i>J. Biol. Chem.</i> , 267(29):20927-20931, 1992.

Examiner: S. DunnDate Considered: 7-23-99

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Form PTO-1449 (modified)		Atty. Docket No. ARCD:278/WIM	Serial No. 09/207,646
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Exam. Init.	Ref. Des.	Citation
<input checked="" type="checkbox"/>	C22	Deb Burman <i>et al.</i> , "Chaperone-supervised conversion of prion protein to its protease-resistant form", <i>Proc. Natl. Acad. Sci. USA</i> , 94:13938-13943, 1997.
<input checked="" type="checkbox"/>	C23	Dlouhy <i>et al.</i> , "Linkage of the Indiana kindred of Gerstmann-Sträussler-Scheinker disease to the prion protein gene", <i>Nat. Genet.</i> , 1:64-67, 1992.
<input checked="" type="checkbox"/>	C24	Doh-ura <i>et al.</i> , "Pro→Leu change at position 102 of prion protein is the most common but not the sole mutation related to Gerstmann-Sträussler syndrome", <i>Biochem. Biophys. Res. Commun.</i> , 163(2):974-979, 1989.
<input checked="" type="checkbox"/>	C25	Edenhofer <i>et al.</i> , "Prion protein PrP ^c interacts with molecular chaperones of the Hsp60 family", <i>J. Virol.</i> , 70(7):4724-4728, 1996.
<input checked="" type="checkbox"/>	C26	Freeman <i>et al.</i> , "Identification of a regulatory motif in Hsp70 that affects ATPase activity, substrate binding and interaction with HDJ-1", <i>EMBO J.</i> , 14(10):2281-2292, 1995.
<input checked="" type="checkbox"/>	C27	Gabizon <i>et al.</i> , "Mutation and polymorphism of the prion protein gene in Libyan Jews with Creutzfeldt-Jakob disease (CJD)", <i>Am. J. Hum. Genet.</i> , 53:828-835, 1993.
<input checked="" type="checkbox"/>	C28	Gasset <i>et al.</i> , "Predicted α-helical regions of the prion protein when synthesized as peptides form amyloid", <i>Proc. Natl. Acad. Sci. USA</i> , 89:10940-10944, 1992.
<input checked="" type="checkbox"/>	C30	Goldfarb <i>et al.</i> , "An insert mutation in the chromosome 20 amyloid precursor gene in a Gerstmann-Sträussler-Scheinker family", <i>J. Neurol. Sci.</i> , 111:189-194, 1992.
<input checked="" type="checkbox"/>	C31	Goldfarb <i>et al.</i> , "New mutation in scrapie amyloid precursor gene (at codon 178) in Finnish Creutzfeldt-Jakob kindred", <i>Lancet</i> , 337:425, 1991.
<input checked="" type="checkbox"/>	C32	Goldfarb <i>et al.</i> , "Mutation in codon 200 of scrapie amyloid precursor gene linked to Creutzfeldt-Jakob disease in Sephardic Jews of Libyan and non-Libyan origin", <i>Lancet</i> , 336:637-638, 1990.
<input checked="" type="checkbox"/>	C33	Goldgaber <i>et al.</i> , "Mutations in familial Creutzfeldt-Jakob disease and Gerstmann-Sträussler-Scheinker's syndrome", <i>Exp. Neurol.</i> , 106:204-206, 1989.
<input checked="" type="checkbox"/>	C34	Griffith, "Nature of the scrapie agent", <i>Nature</i> , 215:1043-1044, 1967.

Examiner: *S. June*Date Considered: *4-23-99*

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Exam. Init.	Ref. Des.	Citation
	C35	Guirroy <i>et al.</i> , "Immunolocalization of scrapie amyloid in non-congophilic, non-birefringent deposits in golden Syrian hamsters with experimental transmissible mink encephalopathy", <i>Neurosci. Lett.</i> , 155(1):112-115, 1993.
	C36	Hartl, "Molecular chaperones in cellular protein folding", <i>Nature</i> , 381:571-580, 1996.
	C37	Hsiao <i>et al.</i> , "Linkage of a prion protein missense variant to Gerstmann-Sträussler syndrome", <i>Nature</i> , 338:342-345, 1989.
	C38	Hwang <i>et al.</i> , "Protease Ti, a new ATP-dependent protease in <i>Escherichia coli</i> , contains protein-activated ATPase and proteolytic functions in distinct subunits", <i>J. Biol. Chem.</i> , 263(18):8727-8734, 1988.
	C39	Kenward <i>et al.</i> , "Heat shock proteins, molecular chaperones and the prion encephalopathies", <i>Cell Stress & Chaperones</i> , 1(1):18-22, 1996.
	C40	King <i>et al.</i> , "Prion-inducing domain 2-114 of yeast Sup35 protein transforms <i>in vitro</i> into amyloid-like filaments", <i>Proc. Natl. Acad. Sci. USA</i> , 94:6618-6622, 1997.
	C41	Kitamoto <i>et al.</i> , "An amber mutation of prion protein in Gerstmann-Sträussler syndrome with mutant PrP plaques", <i>Biochem. Biophys. Res. Commun.</i> , 192(2):525-531, 1993.
	C42	Kitamoto <i>et al.</i> , "Novel missense variants of prion protein in creutzfeldt-jakob disease or gerstmann-straussler syndrome", <i>Biochem. Biophys. Res. Commun.</i> , 191:709-714, 1993.
	C43	Klunk <i>et al.</i> , "Quantitative evaluation of congo red binding to amyloid-like proteins with a Beta-pleated sheet conformation", <i>J. Histochem. Cytochem.</i> , 37(8):1273-1279, 1989.
	C44	Kocisko <i>et al.</i> , "Cell-free formation of protease-resistant prion protein", <i>Nature</i> , 370:471-474, 1994.
	C45	Kocisko <i>et al.</i> , "Species specificity in the cell-free conversion of prion protein to protease-resistant forms: A model for the scrapie species barrier", <i>Proc. Natl. Acad. Sci. USA</i> , 92:3923-3927, 1995.
	C46	Lansbury and Caughey, "The chemistry of scrapie infection: implications of the 'ice 9' metaphor", <i>Chem. Biol.</i> , 2:1-5, 1995.
	C47	Lanzetta <i>et al.</i> , "An improved assay for nanomole amounts of inorganic phosphate", <i>Analyt. Biochem.</i> , 100:95-97, 1979.

Examiner: <i>S. Lindquist</i>	Date Considered: <i>7-23-99</i>
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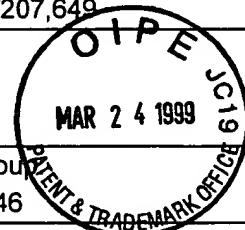
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Exam. Init.	Ref. Des.	Citation
<i>[initial]</i>	C48	Lee <i>et al.</i> , "Structure and <i>in vitro</i> molecular chaperone activity of cytosolic small heat shock proteins from Pea", <i>J. Biol. Chem.</i> , 270(15):10432-10438, 1995.
<i>[initial]</i>	C49	Lehmann and Harris, "Mutant and infectious prion proteins display common biochemical properties in cultured cells", <i>J. Biol. Chem.</i> , 271(3):1633-1637, 1997.
<i>[initial]</i>	C50	Lindquist, "Mad cows meet Psi-chotic yeast: The expansion of the prion hypothesis", <i>Cell</i> , 89:495-498, 1997.
<i>[initial]</i>	C51	Masters <i>et al.</i> , "Creutzfeldt-Jakob disease: Patterns of worldwide occurrence and the significance of familial and sporadic clustering", <i>Ann. Neurol.</i> , 5(2):177-188, 1979.
<i>[initial]</i>	C52	Maurizi <i>et al.</i> , "Endopeptidase Clp: ATP-dependent Clp protease from <i>Escherichia coli</i> ", <i>Meth. in Enzymol.</i> , 244:314-331, 1994.
<i>[initial]</i>	C53	McKinley <i>et al.</i> , "A protease-resistant protein is a structural component of the scrapie prion", <i>Cells</i> , 35:57-62, 1982.
<i>[initial]</i>	C54	Medori <i>et al.</i> , <i>N. Engl. J. Med.</i> , 326:444-449, 1992.
<i>[initial]</i>	C55	Mehlhorn <i>et al.</i> , "High-level expression and characterization of a purified 142-residue polypeptide of the prion protein", <i>Biochemistry</i> , 35(17):5528-5537, 1996.
<i>[initial]</i>	C56	Mendoza <i>et al.</i> , "Chaperonins facilitate the <i>in vitro</i> folding of monomeric mitochondrial rhodanese", <i>J. Biol. Chem.</i> , 266(20):13044-13049, 1991.
<i>[initial]</i>	C57	Müller-Hill and Beyreuther, "Molecular biology of alzheimer's disease", <i>Annu. Rev. Biochem.</i> , 58:287-307, 1989.
<i>[initial]</i>	C58	Nakamura <i>et al.</i> , "L-proline is an essential amino acid for hepatocyte growth in culture", <i>Biochem. Biophys. Res. Comm.</i> , 122(3):884-891, 1984.
<i>[initial]</i>	C59	Nguyen <i>et al.</i> , "Prion protein peptides induce α -helix to β -sheet conformational transitions", <i>Biochemistry</i> , 34:4186-4192, 1995.
<i>[initial]</i>	C60	Oesch <i>et al.</i> , "A cellular gene encodes scrapie PrP 27-30 protein", <i>Cell</i> , 40:735-746, 1985.
<i>[initial]</i>	C61	Pan <i>et al.</i> , "Conversion of α -helices into β -sheets features in the formation of the scrapie prion proteins", <i>Proc. Natl. Acad. Sci. USA</i> , 90:10962-10966, 1993.

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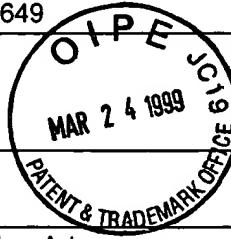
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<i>ST</i>	C62	Parsell <i>et al.</i> , "Saccharomyces cerevisiae Hsp104 protein", <i>J. Biol. Chem.</i> , 269(6):4480-4487, 1994.
<i>ST</i>	C63	Parsell <i>et al.</i> , "Protein disaggregation mediated by heat-shock protein Hsp104", <i>Nature</i> , 372:475-478, 1994.
<i>ST</i>	C64	Parsell <i>et al.</i> , "Hsp104 is a highly conserved protein with two essential nucleotide-binding sites", <i>Nature</i> , 353:270-272, 1991.
<i>ST</i>	C65	Parsell and Lindquist, "The function of heat-shock proteins in stress tolerance: degradation and reactivation of damaged proteins", <i>Annu. Rev. Genet.</i> , 27:437-496, 1993.
<i>ST</i>	C66	Patino <i>et al.</i> , "Support for the prion hypothesis for inheritance of a phenotypic trait in yeast", <i>Science</i> , 273:622-626, 1996.
<i>ST</i>	C67	Paushkin <i>et al.</i> , "Propagation of the yeast prion-like [psi ⁺] determinant is mediated by oligomerization of the SUP35-encoded polypeptide chain release factor", <i>EMBO J.</i> , 15(12):3127-3134, 1996.
<i>ST</i>	C68	Paushkin <i>et al.</i> , "In vitro propagation of the prion-like state of yeast Sup35 protein", <i>Science</i> , 277:381-383, 1997.
<i>ST</i>	C69	Petersen <i>et al.</i> , "Analysis of the prion protein gene in thalamic dementia", <i>Neurology</i> , 42:1859-1863, 1992.
<i>ST</i>	C70	Pike <i>et al.</i> , "Neurodegeneration induced by β-amyloid peptides <i>in vitro</i> : The role of peptide assembly state", <i>J. Neurosci.</i> 13(4):1676-1687, 1993.
<i>ST</i>	C71	Poulter <i>et al.</i> , "Inherited prion disease with 144 base pair gene insertion", <i>Brain</i> , 115:675-685, 1992.
<i>ST</i>	C72	Prusiner <i>et al.</i> , "Purification and structural studies of a major scrapie prion protein", <i>Cell</i> , 38:127-134, 1984.
<i>ST</i>	C73	Prusiner <i>et al.</i> , "Further purification and characterization of scrapie prions", <i>Biochemistry</i> , 21:6942-6950, 1982.
<i>ST</i>	C74	Prusiner, "Prions", In: <i>Fields Virology</i> , Fields, B.N., Knipe, D.M. & Howley, P.M. (Eds.), Lippencott-Raven Publishers, Philadelphia, pp 2901-2950, 1996.

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<i>ST</i>	C75	Prusiner <i>et al.</i> , "Scrapie prions aggregate to form amyloid-like birefringent rods", <i>Cell</i> , 35:349-358, 1983.
<i>ST</i>	C76	Prusiner, "Molecular biology and pathogenesis of prion diseases", <i>Trends Biochem. Sci.</i> , 21:482-487, 1996.
<i>ST</i>	C77	Raymond <i>et al.</i> , "Molecular assessment of the potential transmissibilities of BSE and scrapie to humans", <i>Nature</i> , 388:285-288, 1997.
<i>ST</i>	C78	Riek <i>et al.</i> , "NMR structure of the mouse prion protein domain PrP (121-231)", <i>Nature</i> , 382:180-184, 1996.
<i>ST</i>	C79	Sanchez and Lindquist, "HSP104 required for induced thermotolerance", <i>Science</i> , 248:1112-1115, 1990.
<i>ST</i>	C80	Schirmer and Lindquist, "Interactions of the chaperone Hsp104 with yeast Sup35 and mammalian PrP", <i>Proc. Natl. Acad. Sci. USA</i> , 94:13932-13937, 1997.
<i>ST</i>	C81	Schirmer <i>et al.</i> , "HSP100/Clp proteins: A common mechanism explains diverse functions", <i>Trends Biochem. Sci.</i> , 21:289-296, 1996.
<i>ST</i>	C82	Talzelt <i>et al.</i> , "Chemical chaperones interfere with the formation of scrapie prion protein", <i>EMBO J.</i> , 15(23):6363-6373, 1996.
<i>ST</i>	C83	Tashima <i>et al.</i> , "Congophilic in cerebral amyloidosis is modified by inactivation procedures on slow transmissible pathogens", <i>Brain Res.</i> , 399(1):80-86, 1986.
<i>ST</i>	C84	Telling <i>et al.</i> , "Prion propagation in mice expressing human and chimeric PrP transgenes implicates the interaction of cellular PrP with another protein", <i>Cell</i> , 83:79-90, 1995.
<i>ST</i>	C85	Ter-Avanesyan <i>et al.</i> , "Deletion analysis of the SUP35 gene of the yeast <i>Saccharomyces cerevisiae</i> reveals two non-overlapping functional regions in the encoded protein", <i>Mol. Microbiol.</i> , 7(5):683-692, 1993.
<i>ST</i>	C86	Todd and Lorimer, "Stability of the asymmetric <i>Escherichia coli</i> chaperonin complex", <i>J. Biol. Chem.</i> , 270(10):5388-5394, 1995.
<i>ST</i>	C87	Vey <i>et al.</i> , "Subcellular colocalization of the cellular and scrapie prion proteins in caveolae-like membranous domains", <i>Proc. Natl. Acad. Sci. USA</i> , 93:14945-14949, 1996.

Examiner: *D. Turner*Date Considered: *3-23-99*

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<i>SL</i>	C88	Wawrzynow <i>et al.</i> , "The ClpX heat-shock protein of <i>Escherichia coli</i> , the ATP-dependent substrate specificity component of the ClpP-ClpX protease, is a novel molecular chaperone", <i>EMBO J.</i> , 14(9):1867-1877, 1995.
<i>SL</i>	C89	Welch and Brown, "Influence of molecular and chemical chaperones on protein folding", <i>Cell Stress & Chaperones</i> , 1(2):109-115, 1996.
<i>SL</i>	C90	Wickner <i>et al.</i> , "A molecular chaperone, ClpA, functions like DnaK and DnaJ", <i>Proc. Natl. Acad. Sci. USA</i> , 91:12218-12222, 1994.
<i>SL</i>	C91	Wickner, "[URE3] as an altered URE2 protein: Evidence for a prion analog in <i>Saccharomyces cerevisiae</i> ", <i>Science</i> , 264:566-569, 1994.
<i>SL</i>	C92	Wu and Chen, "Adsorption of proteins onto glass surfaces and its effect on the intensity of circular dichroism spectra", <i>Analyt. Biochem.</i> , 177:178-182, 1989.
<i>SL</i>	C93	Yancey <i>et al.</i> , "Living with water stress: Evolution of osmolyte systems", <i>Science</i> , 217:1214-1222, 1982.
<i>SL</i>	C94	Zeigelhoffer <i>et al.</i> , "The dissociation of ATP from hsp70 of <i>Saccharomyces cerevisiae</i> is stimulated by both Ydj1p and peptide substrates", <i>J. Biol. Chem.</i> , 270(18):10412-10419, 1995.
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Examiner: *S Turner*Date Considered: *7-23-99*

EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.